KV-6 Viscometer Bath

Kinematic Viscosity

ASTM D445-IP 71; D446; D2170- IP 319; ASTM D2270-IP 226

- Temperature range ambient to 150°C
- Illuminated bath providing clear visibility
- Accommodates 6 standard viscometer tubes
- Digital display with 0.01 resolution

Kinematic Viscosity

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Kinematic viscosity is a key property for fuels and lubricants. Kinematic viscosity is determined by measuring the time it takes for a sample to flow through a glass capillary viscometer at a known constant temperature. Kinematic viscosity is extremely temperature sensitive and as such an accurate stable temperature controlled bath is essential.

Most fuel specifications include viscosity at a specified temperature. Viscosity in fuels determines how well the fuel will pump to the engines. For lubricants, kinematic viscosity determines the ability of a lubricating oil to create and maintain lurbcation films between moving parts. Poor lubricant performance causes wear and overheating. Kinematic viscosity measurements enables the calculation of viscosity index. Viscosity index is an important parameter which describes the relationship between viscosity and temperature for a given lubricant.

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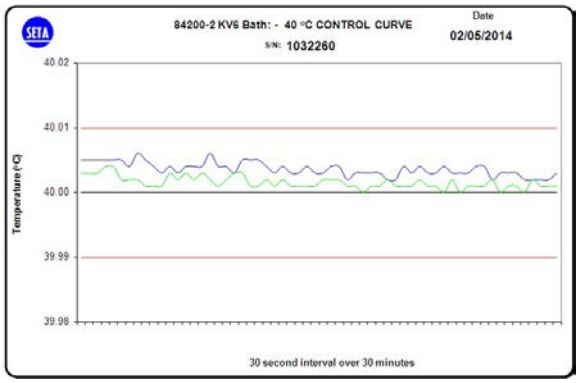
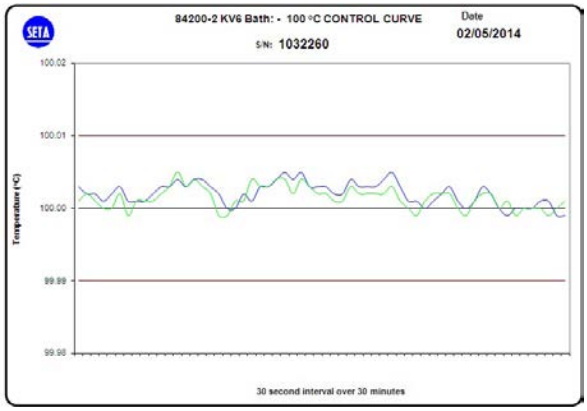
The Seta KV-6 gives users a high quality, robust solution for kinematic viscosity determinations. Ultra precision temperature stability and uniformity is achieved with an integrated heating and stirring system. All internal components are made of stainless steel construction to ensure long term durability. The large 50 litre capacity ensures minimum temperature recovery time after loading the bath, improving sample throughput.

The bath is equipped with a toughened glass front window, easily accessible drain valve, integral back lighting, top plate and provision for reference thermometers and attachments.

Stability Graphs

Below are typical examples of stability at 40°C and 100°C;





Key Features

- Easy accessible drain valves
- 50 Litre bath capacity minimising temperature recovery time
- Integrated heating and stirring system
- Stainless steel internal components providing long term durability
- Two positions for reference thermometers
- Digital display with 0.01 resolution

Thermostir Plus

The high performance Thermostir Plus is specially programmed for the KV-6 to achieve the exact temperature stability and uniformity required for kinematic viscosity determinations and other high accuracy calibration procedures.

- Large colour display showing bath and set point temperatures
- Preset facility for standard kinematic viscosity temperatures
- Heating & boost heating temperature control with adjustment setting to 0.01°C

Start-Up Kits

A range of start-ups kits are available, they are specifically designed for use with the Viscometer which fits your requirements;

- Cannon Fenske Opaque Starter Kit (84210-0)
- Cannon Fenske Routine Starter Kit (84211-0)
- Ubbelohde Starter Kit (84212-0)
- U Tube Reverse Flow Starter Kit (84213-0)
- BS U Tube Kit (84214-0)

Technical Specifications:	
Temperature Range:	Ambient to 150°C (302°F)
Temperature Stability:	±0.002°C at 40°C ±0.005°C at 100°C, ±0.01°C at 150°C
Tube Capacity:	up to 6
Bath Fluid:	Oil, silicone fluid or water
Bath Capacity:	50 litres
Voltage/Power:	220/240V, 50/60Hz
Size (HxWxD)/ Weight:	68 x 56 x 33cm / 33kg

Technical Specifications:	
KV-6 Viscometer Bath:	84200-2
Seta Kinematic Viscometer Thermometer 40°C:	83640-0
Seta Kinematic Viscometer Thermometer 100°C:	83641-0

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